

## SUMMARY OF RESOURCE EFFECTS BY ALTERNATIVE

AFFECTED RESOURCE	Sub-Category	NO ACTION	PROPOSED ACTION (PREFERRED ALTERNATIVE)
<b>Direct &amp; Indirect Effects 4.1</b>			
<b>Water Resources</b>			
	<i><b>Surface Water 4.1.1</b></i>	No effect. The City would need to continue to meet permit requirements to offset surface water effects of its ground water pumping.	No effect.
	<i><b>Groundwater 4.1.2</b></i>	No effect. The City would still be required under existing permits to offset its groundwater depletions and reductions in streamflow in the Rio Grande and its tributaries attributed to the City's groundwater pumping.	No effect. Would provide 3,000 ac-ft/yr for groundwater offsets and other legal and regulatory requirements, as well as for direct diversions.
<b>Biological Resources 4.1.3</b>	<i><b>Aquatic Communities 4.1.3.1</b></i>	No effect. If the City is not able to acquire the Nation's subcontract water, the City is still required under its existing permits to offset the effects on surface water from its ground water depletions, and therefore aquatic communities would not be affected.	No effect. The Proposed Action would make additional water available to the City to enhance the City's ability to offset calculated depletions on the Rio Grande as a result of Buckman Well Field pumping, and to mitigate potential impacts on fish and macroinvertebrate communities within the Project Area.
<b>Riparian Resources 4.1.4</b>		No effect. The No Action Alternative would not remove or modify vegetation communities within the Project Area. As a condition of approval of regulatory permits, the City is required to monitor potentially impacted riparian/wetlands every five years and mitigate for effects to riparian areas as a result of Buckman Well Field pumping.	No effect. Additional in-stream water may be available to offset flow reductions caused by groundwater depletions.
<b>Threatened &amp; Endangered Species 4.1.5</b>		No effect. There would be no disturbance or change in threatened and endangered or special status species. No Action would not guarantee the availability of the Nation's water to Reclamation to supplement flows for the silvery minnow.	No effect.





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<b>Cultural Resources</b> 4.1.6		No effect. The Proposed Action would involve no construction or disturbance to cultural resources and therefore would have no effect on cultural resources.	No effect. The Proposed Action does not involve any construction or alteration of any facilities along the river system. Because no alteration or ground disturbance is proposed, there would be no adverse effect on cultural resources.
<b>Environmental Justice</b> 4.1.7		Affected. The Nation would lose the benefit of the subcontract, resulting in the loss of revenue from the subcontract. The lost revenue would adversely impact the Nation's on-going efforts to provide human services and economic development opportunity to its people.	No effect. The Proposed Action will benefit the Nation and not affect other minority and low income communities.
<b>Indian Trust Assets</b> 4.1.8		Affected. The Nation would not be able to enjoy the economic benefit of the subcontract it has negotiated with the City. This would be an adverse effect on the Nation's water rights as an Indian Trust Asset.	No effect. The Proposed Action will have a positive benefit by facilitating the Nation's use of its Indian Trust Asset for an economic return to the Nation. The Proposed Action will not affect the Indian Trust Assets of any other tribe.
<b>Cumulative Effects</b> 4.2			
	<b>Surface Water</b> 4.2.2	No effect. Under the No Action Alternative, the City would need to continue to seek other methods (e.g., other water rights) to meet its near-term water supply needs for groundwater offsets and other water uses. Flows in the Rio Grande would continue to be regulated by the OSE and the City would need to find alternative releases of San Juan-Chama or other water for offsets. Therefore, the No Action Alternative, taken together with past, present and future actions, would have no cumulative effect on surface	No effect.



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		water resources.	
	<b>Groundwater Resources</b> <b>4.2.3</b>	<p>No effect.</p> <p>Under the No Action Alternative, the Buckman Well Field would continue to provide about 40 to 60 percent of the City's water supply, however, the cumulative effects of groundwater depletions and reductions in streamflow would continue to require current mitigation (offsets) to satisfy OSE requirements. If other proposed projects were constructed affecting groundwater depletions and associated stream depletions, the rate at which these groundwater depletions occur could be affected, constituting a cumulative effect. To the extent that future wells are proposed, the OSE will require appropriate mitigation for surface and groundwater protection. Therefore, no cumulative effects have been identified</p>	<p>No effect.</p> <p>If other proposed projects are constructed affecting groundwater depletions and associated stream depletions, such as the Buckman Water Diversion Project, the rate at which these groundwater depletions occur could be affected, constituting a cumulative effect.</p> <p>To the extent that future wells are proposed, the OSE will require appropriate mitigation for surface and groundwater protection.</p> <p>The Proposed Action would provide additional flows to help meet the requirements from the OSE to operate the Buckman wells, specifically mitigating groundwater and surface water depletions</p>
<b>Biological Resources</b> <b>4.2.4</b>	<b>Aquatic Communities</b> <b>4.2.4.1</b>	<p>No effect.</p> <p>The No Action Alternative would not effect aquatic communities, causing no cumulative effect. If the City is not able to acquire the Nation's subcontract water, the City is still required under its existing permits to offset the effects on surface water from its ground water depletions.</p>	No effect.
<b>Riparian Resources</b> <b>4.2.5</b>		<p>No effect.</p> <p>The No Action Alternative would not remove or modify vegetation communities within the Project Area. As a condition of approval of regulatory permits, the City is required to monitor potentially impacted riparian/wetlands every five years and mitigate for effects to riparian areas as a result of Buckman Well Field pumping.</p>	No effect.



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		Therefore, the No Action Alternative, taken together with past, present and future actions, would have no cumulative effect on surface water resources.	
<b>Threatened and Endangered Species</b> 4.2.6		No effect. Under the No Action Alternative, there would be no disturbance of or change in threatened and endangered or special status species. Other proposed water diversion projects will also be required to offset direct effects. Therefore, there would be no cumulative adverse effect.	No effect. Other proposed projects would be required to keep flow conditions at the Otowi gage whole with state and federal regulatory controls (for example, CWA, ESA) likely restricting such potential future degradations.
<b>Cultural Resources</b> 4.2.7		No effect. The Proposed Action would involve no construction or disturbance to cultural resources and therefore would have no cumulative effect on cultural resources.	No effect. The Proposed Action does not involve any construction or alteration of any facilities along the river system. Because no alteration or ground disturbance is proposed, there would be no adverse effect on cultural resources.
<b>Environmental Justice</b> 4.2.8		Affected. The Nation would lose the benefit of the subcontract, resulting in the loss of revenue from the subcontract. The lost revenue would adversely impact the Nation's on-going efforts to provide human services and economic development opportunity to its people, thereby causing an adverse cumulative effect.	No effect.
<b>Indian Trust Assets</b> 4.2.9		Affected. Under the No Action alternative, the Nation would not be able to enjoy the economic benefit of the subcontract it has negotiated with the City. This would have an adverse cumulative effect on the Nation's water rights as an Indian Trust Asset. The Nation has no current use for the water under the subcontract on the Reservation. Consequently, the	No effect. The Proposed Action would have a positive cumulative effect by facilitating the Nation's use of its Indian Trust Asset for an economic return to the Nation.  The Proposed Action would not have a cumulative effect on the Indian Trust Assets of any other tribe.



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		<p>Nation would not realize any current and future offsetting benefit.</p> <p>No Indian Trust Assets of other tribes would be affected.</p>	

